

**COMBINED DECLARATION AND PRINCIPAL POWER OF ATTORNEY  
FOR  
PATENT APPLICATION**

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**A MICROFLUIDIC DEVICE AND METHOD FOR FOCUSING, SEGMENTING, AND DISPENSING OF A FLUID STREAM**

the specification of which is attached to this Combined Declaration and Principal Power of Attorney for Patent Application;

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim the benefit under 35 USC §119(e) of any United States provisional applications listed below:

**Provisional Application No. 60/175,684 filed January 12, 2000.**

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

|                     |                         |
|---------------------|-------------------------|
| Vincent A. Branton  | Registration No. 39,120 |
| George L. Craig     | Registration No. 29,293 |
| J. Kenneth Davis    | Registration No. 38,426 |
| Joseph A. Marasco   | Registration No. 32,798 |
| James M. Spicer     | Registration No. 26,096 |
| Shelley L. Stafford | Registration No. 38,623 |
| Kirk A. Wilson      | Registration No. 45,939 |

All of: **UT-Battelle, LLC**  
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Oak Ridge, Tennessee 37831-6498

Please direct all correspondence and telephone calls to the individual identified in the Associate Power of Attorney.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: STEPHEN C. JACOBSON

Inventor's Signature: *Stephen C Jacobson*

Date: 03/09/01

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Citizenship: UNITED STATES OF AMERICA

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Knoxville, Tennessee 37919

Full name of second inventor: J. MICHAEL RAMSEY

Inventor's Signature: *J. Michael Ramsey*

Date: 3/9/01

Residence: Knoxville, Tennessee

Citizenship: UNITED STATES OF AMERICA

Post Office Address: 733 Hampton Roads Drive

Knoxville, Tennessee 37922

**ASSOCIATE POWER OF ATTORNEY  
FOR  
PATENT APPLICATION  
Pursuant to 35 C.F.R. §1.34**

Please recognize as Associate Attorney in this case:

**A MICROFLUIDIC DEVICE AND METHOD FOR FOCUSING, SEGMENTING,  
AND DISPENSING OF A FLUID STREAM**

Vincent T. Pace  
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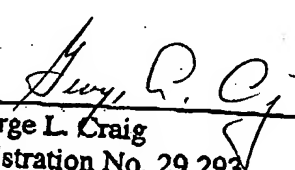
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Respectfully submitted,

  
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